

04 - STRUCTURES
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE
S-1	BRIDGE DESIGN INDEX OF DRAWINGS
S-2	BRIDGE INFORMATION TABLE
S-3	ASPHALTIC PLUG EXP JOINT SYSTEM DETAILS
S-4	PARAPET JOINT DETAIL

BRIDGE NO.	CROSSING	TOWN
00268	I-395 OVER LEFFINGWELL ROAD	MONTVILLE
00271	I-395 OVER STATE ROUTE 82	NORWICH
00275	I-395 OVER OTROBANDO AVENUE	NORWICH
00277	I-395 OVER STATE ROUTE 642	NORWICH

NOTE: FOR BRIDGE LOCATIONS SEE HIGHWAY PLANS.

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

BRIDGE INFORMATION FOR REPLACEMENT OF EXISTING EXPANSION JOINTS									
		BRIDGE NOS.							
		00268		00271		00275		00277	
JOINT REPLACEMENT LOCATION AND DETAIL	I-395 MILE POINT	10.26		11.08		13.85		14.23	
	* ABUTMENT NO. 1	DETAIL A		DETAIL A		DETAIL A		DETAIL A	
	THERMAL MOVEMENT RANGE (IN.)	1/2		3/4		1/2		3/4	
	* ABUTMENT NO. 2	DETAIL A		DETAIL A		DETAIL A		DETAIL A	
	THERMAL MOVEMENT RANGE (IN.)	0		3/4		0		0	
BRIDGE GEOMETRY	SOUTHBOUND/NORTHBOUND	S.B.	N.B.	S.B.	N.B.	S.B.	N.B.	S.B.	N.B.
	NUMBER OF TRAVEL LANES	2	2	3	2	2	2	2	2
	** CURB - CURB WIDTH (FT) TOTAL BRIDGE WIDTH (EXCLUDING MEDIAN)	37	37	49	38	37	37	47	37
	*** SKEW (DEG)	35		4		0		28	
REPLACE JOINT SEAL	PARAPET	NO	NO	DETAIL E		NO	NO	DETAIL E	
	MEDIAN	DETAIL C & D		DETAIL C & D		DETAIL C & D		DETAIL C & D	
INSTALL TORCH- APPLIED MEMBRANE	INSTALL MEMBRANE ADJACENT TO EITHER ONE OR BOTH SIDES OF THE PROPOSED ASPHALTIC PLUG JOINT	ONE SIDE		ONE SIDE		ONE SIDE		ONE SIDE	
BRIDGE MILLING AND PAVING DEPTHS	FINE MILLING DEPTH	1.5"		1.5"		1.5"		1.5"	
	HMA S0.5 DEPTH	2.0"		2.0"		2.0"		2.0"	

GENERAL NOTES

1. FOR BRIDGE LOCATIONS SEE HIGHWAY PLANS.
2. FOR "DETAIL A" SEE DRAWING NO. S-3.
3. FOR ALL BRIDGE PARAPET JOINT AND MEDIAN JOINT TREATMENT DETAILS, SEE DRAWING NO. S-4.
4. THE DEPTH OF PROPOSED ASPHALTIC PLUG JOINT IS ESTIMATED TO BE, ON AVERAGE, 3¼".

* NOTE: INTERSTATE 395 IS A SOUTH-TO-NORTH ROUTE.
ABUTMENT NO.1 = SOUTHERN-MOST ABUTMENT.

** MEASURED PERPENDICULAR TO CENTERLINE OF ROADWAY



*** MEASURED FROM A LINE PERPENDICULAR TO
CENTERLINE OF ROADWAY

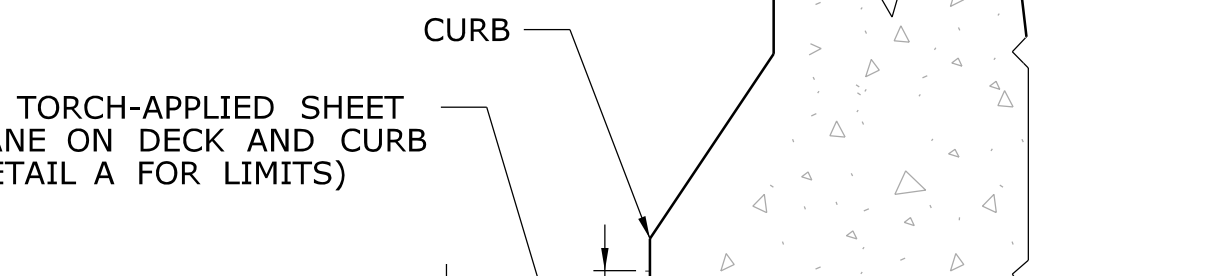
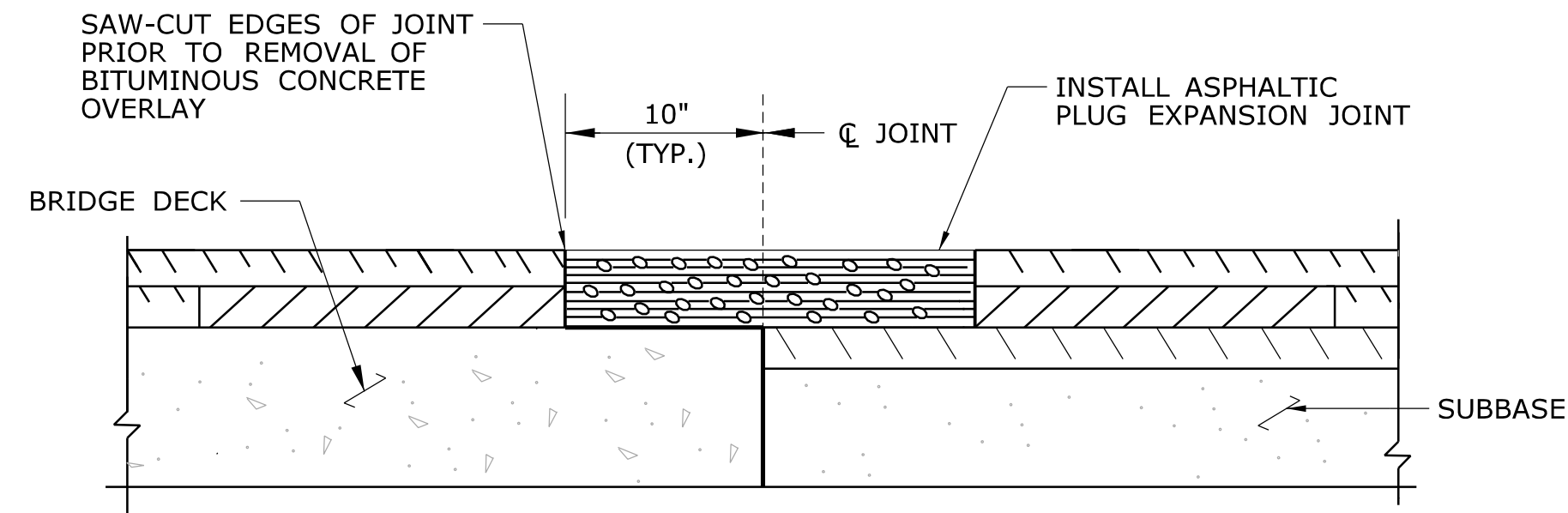
ASPHALTIC PLUG EXPANSION JOINT SYSTEM NOTES

1. A BRIDGING PLATE SHALL BE USED TO SPAN THE GAP BETWEEN TWO DECK ENDS OR THE JOINT BETWEEN A DECK END AND A CONCRETE APPROACH SLAB.
2. DISCONTINUE THE INSTALLATION OF THE BACKER ROD, BRIDGING PLATE AND LOCATING PIN WHERE THE APPROACH SLAB IS DISCONTINUED (TYPICALLY IN THE ROADWAY SHOULDERS). SEE ASPHALTIC PLUG EXPANSION JOINT SYSTEM SPECIAL PROVISION.
3. NEW STEEL BRIDGING PLATES SHALL HAVE A MINIMUM THICKNESS OF ¼". FOR JOINT OPENINGS THAT EXCEED 3" A ⅜" THICK BY 12" WIDE PLATE WILL BE REQUIRED.
4. NO BRIDGING PLATE SHALL BE USED AT THE FOLLOWING LOCATIONS:
A. JOINT BETWEEN A DECK END AND A CONCRETE APPROACH PAVEMENT
B. WHERE A BRIDGE DECK END MEETS A BITUMINOUS APPROACH PAVEMENT
5. SAW-CUTS MADE 3' EACH SIDE OF CENTERLINE OF JOINT WILL BE PAID AS "CUT BITUMINOUS CONCRETE PAVEMENT".
6. THE REMOVAL OF ALL EXISTING JOINT SYSTEMS AND BITUMINOUS CONCRETE WITHIN THE LIMITS SHOWN TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "REMOVAL OF HMA WEARING SURFACE".
7. INSTALLATION OF MEMBRANE WITHIN THE LIMITS SHOWN TO BE PAID UNDER THE ITEM, "MEMBRANE WATERPROOFING (SHEET) (TORCH APPLIED)"
8. CRACK SEALANT PLACED ALONG VERTICAL FACES OF THE SAW-CUT PAVEMENT TO BE PAID UNDER THE ITEM, "JOINT AND CRACK SEALING OF BITUMINOUS CONCRETE PAVEMENT".
9. THE FURNISHING AND PLACING OF HMA S0.375 TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "HMA S0.375".
10. SAW-CUTTING AND REMOVAL OF PAVEMENT FOR JOINT INSTALLATION TO BE INCLUDED UNDER FOR PAYMENT THE ITEM, "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".
11. CLOSED CELL BACKER ROD DIAMETER SHALL BE DETERMINED AFTER MEASURING THE JOINT OPENING. THE ROD SHALL BE 25% LARGER THAN THE JOINT OPENING.
12. ASPHALTIC PLUG EXPANSION JOINT SYSTEMS MAY BE INSTALLED ONLY WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE SPECIAL PROVISION "ASPHALTIC PLUG EXPANSION JOINT SYSTEM". REFERENCE THE RANGE OF THERMAL MOVEMENT FOR THE SELECTED JOINT PRODUCT IN THE TABLE FOR "ALLOWABLE BRIDGE SUPERSTRUCTURE SURFACE TEMPERATURE RANGE" IN THE SPECIAL PROVISION

QUANTITIES

ITEM	UNIT	AMOUNT
ASPHALTIC PLUG EXPANSION JOINT SYSTEM	C.F.	320
REMOVAL OF HMA WEARING SURFACE	S.Y.	215
CUT BITUMINOUS CONCRETE PAVEMENT	L.F.	730
REPLACE JOINT SEAL	L.F.	355
WATERPROOFING MEMBRANE (SHEET) (TORCH-APPLIED)	S.Y.	90
JOINT AND CRACK SEALING OF BITUMINOUS CONCRETE PAVEMENT	L.F.	705
HMA S0.375	TON	85

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: JPC	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	 SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: PAVEMENT PRESERVATION ON I-395	TOWN: MONTVILLE & NORWICH	PROJECT NO. 85-142
-	-	-	-		CHECKED BY: JRH					
-	-	-	-							
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REV.	DATE	REVISION	DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2012	Filename: ...\\85-142.DRAWING.NO.S-2.BRIDGE.INFORMATION.TABLE.dgn		DRAWING TITLE: BRIDGE INFORMATION TABLE		SHEET NO. 04.02



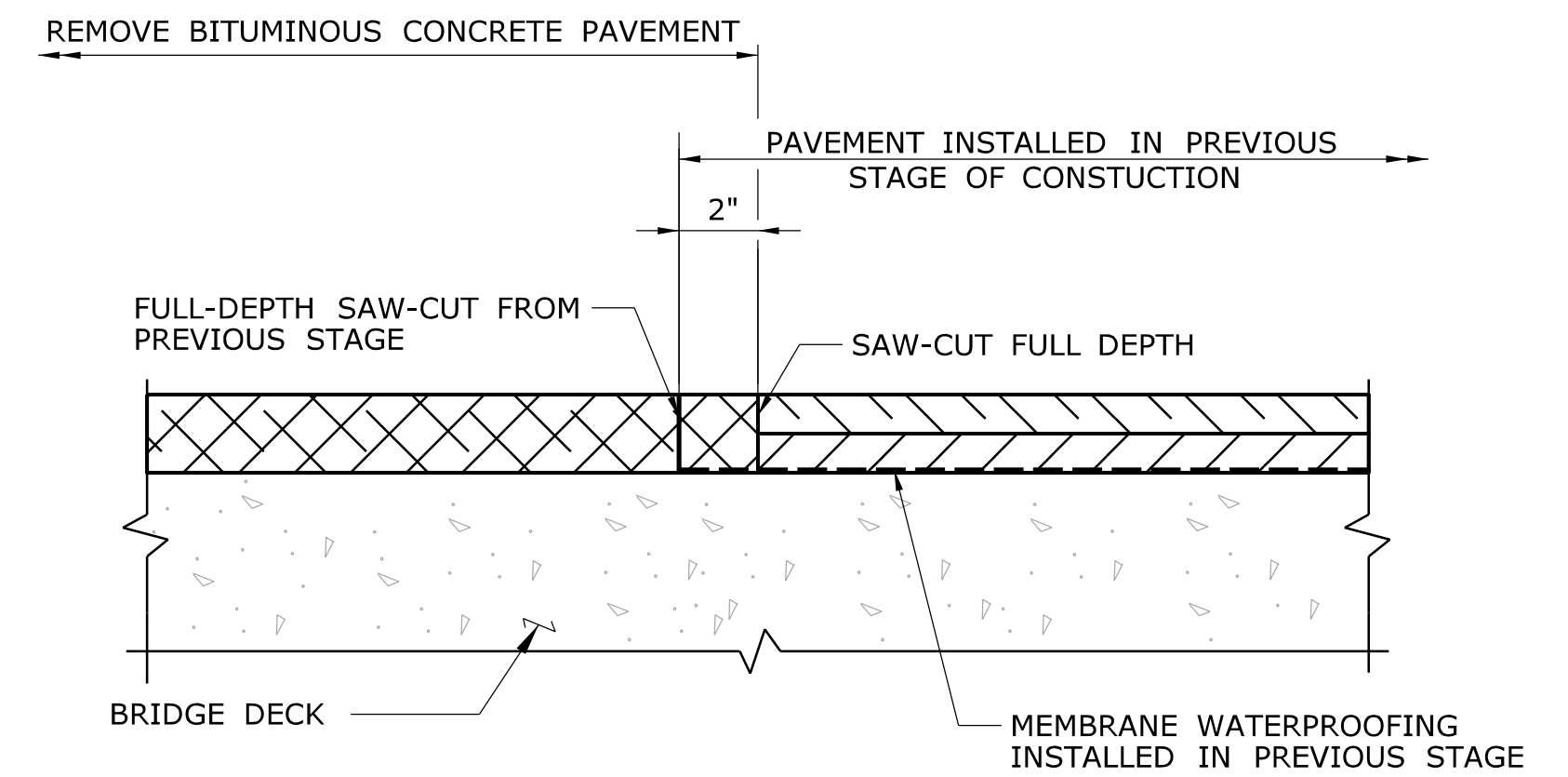
INSTALL TORCH-APPLIED SHEET MEMBRANE ON DECK AND CURB (SEE DETAIL A FOR LIMITS)

CURB

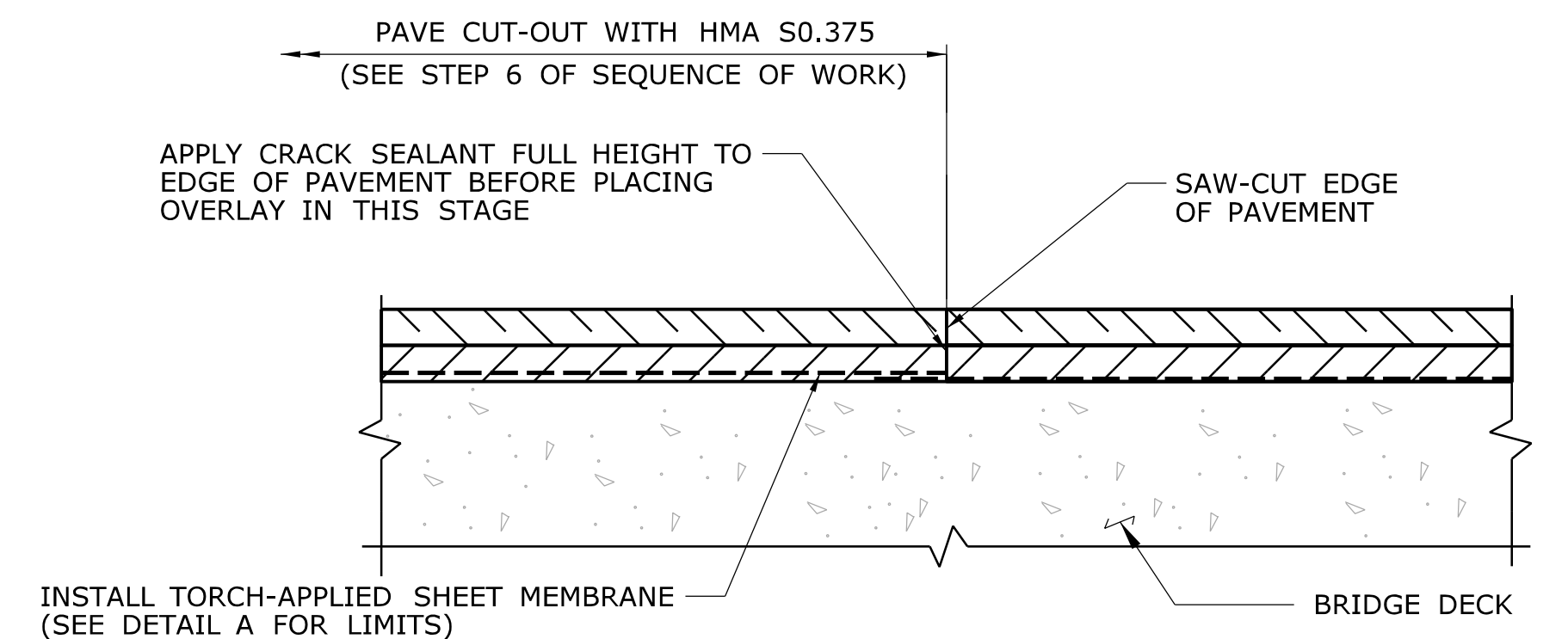
2"

SECTION A AT GUTTERLINE AT PAVEMENT CUT OUT

N.T.S.




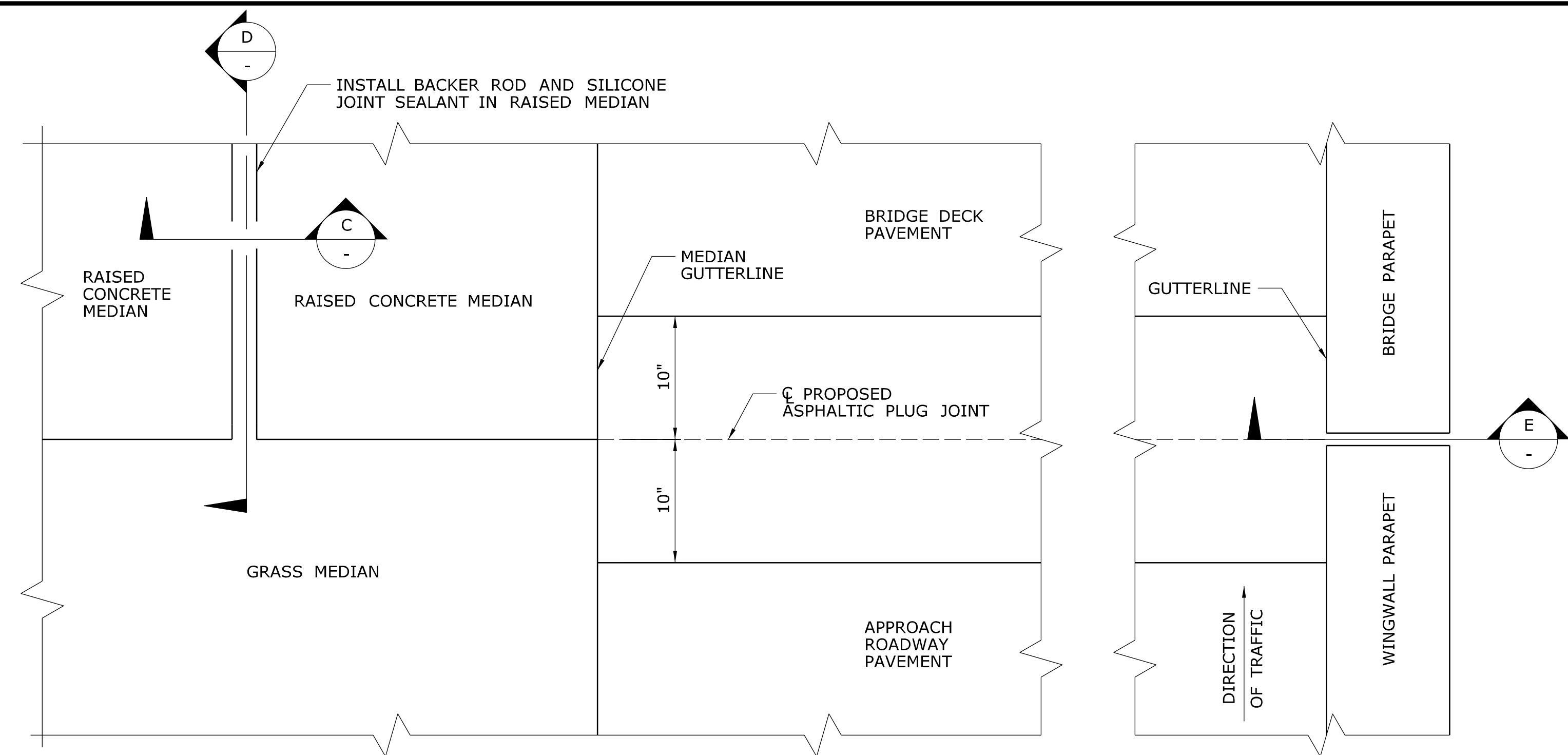
INTERMEDIATE CONDITION PLACEMENT OF PAVEMENT IN JOINT CUTOUT (STEPS 4-6)



BRIDGE DECK — **INTERMEDIATE CONDITION**
MILLING AND PAVING (STEPS 7 & 8)

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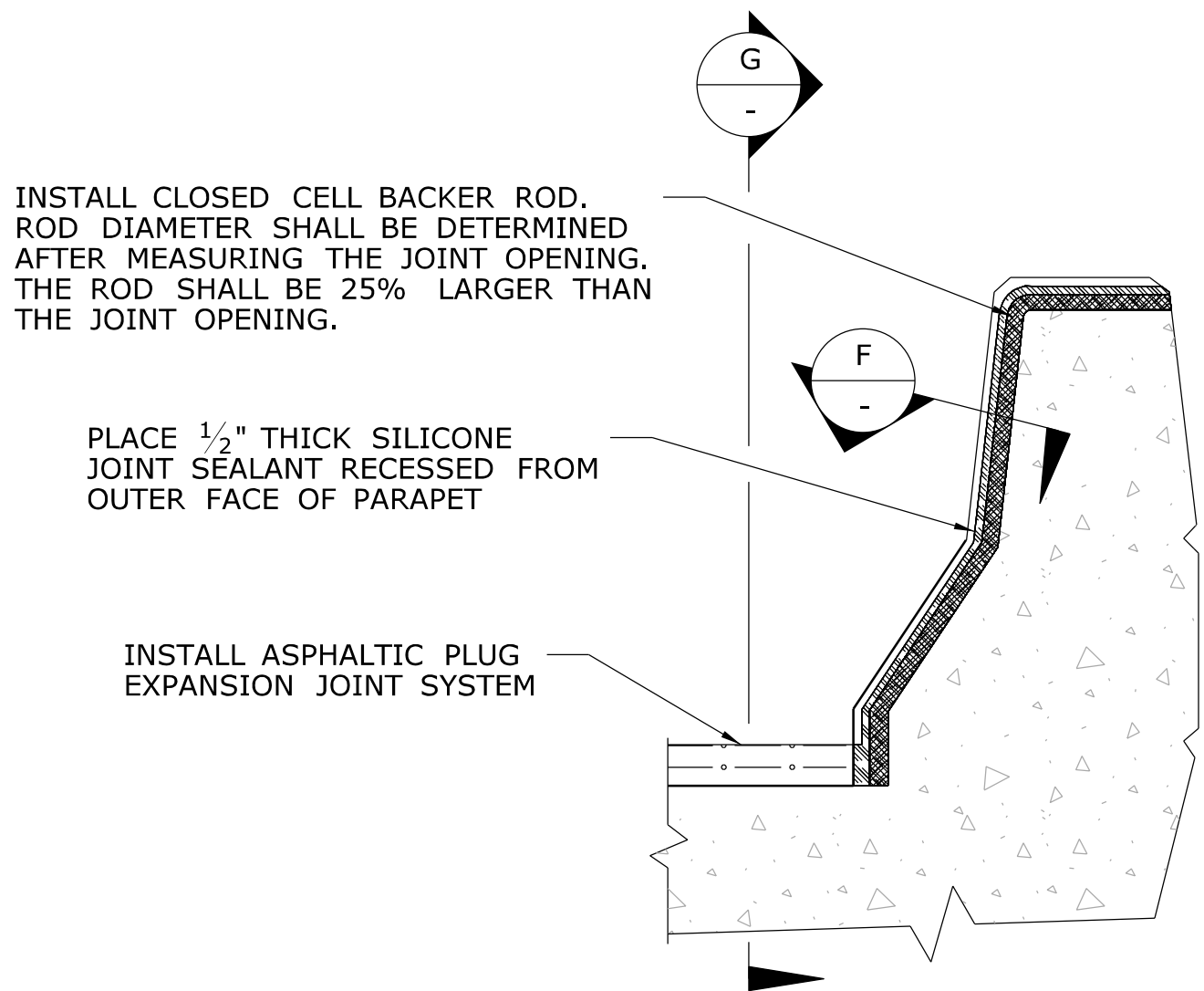
-	-	-		THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: JPC	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: PAVEMENT PRESERVATION ON I-395	TOWN: MONTVILLE & NORWICH	PROJECT NO. 85-142
-	-	-			CHECKED BY: JRH		DRAWING NO. S-3			
-	-	-			SCALE AS NOTED		SHEET NO. 04.03			
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/20/2012		Filename: ...\\85-142-DRAWING.NO.S-3-ASPALTIC.PLUG-JOINT-SYSTEM-DETAILS.dgn				



PLAN - PARAPET AND RAISED CONCRETE MEDIAN JOINT DETAILS

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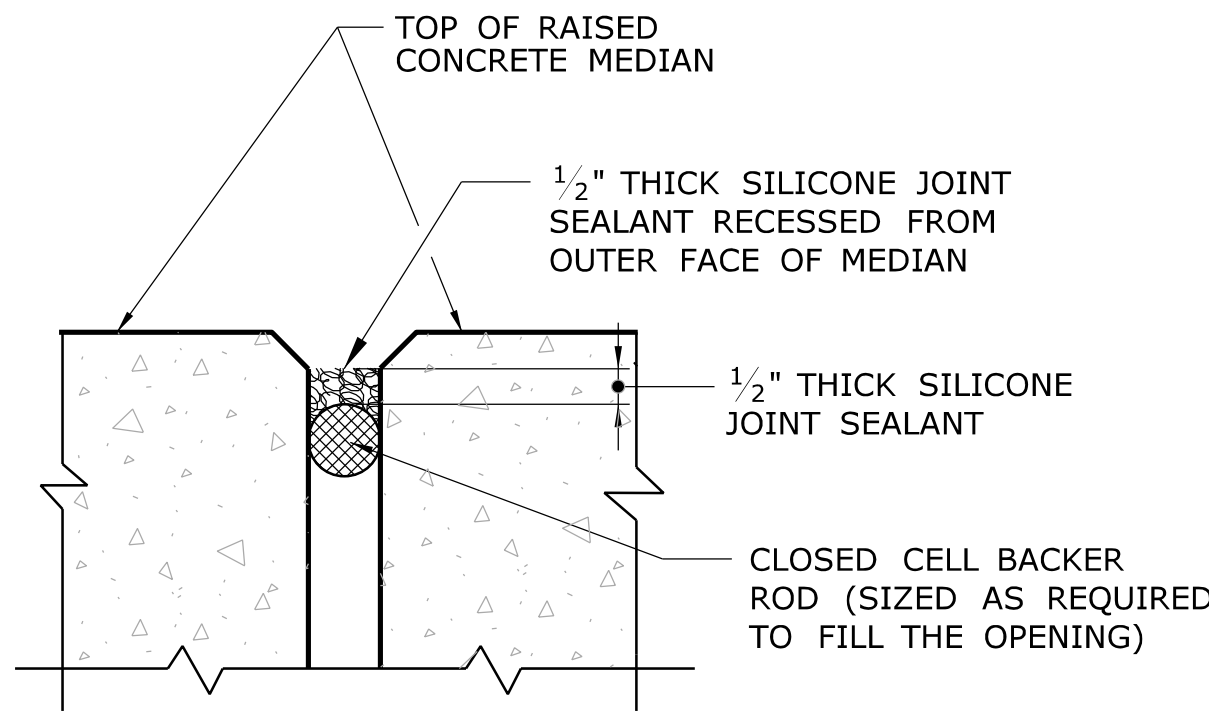
- NOTES FOR SEALING JOINTS**
1. ANY EXISTING BACKER ROD AND JOINT SEALANT SHALL BE COMPLETELY REMOVED.
 2. SURFACES OF CONCRETE ALONG JOINT SHALL BE CLEANED BY ABRASIVE BLAST CLEANING. SURFACES TO WHICH SILICONE SEALANT WILL ADHERE SHALL BE FREE OF DUST AND LOOSE OR DETERIORATED CONCRETE BEFORE INSTALLING BACKER ROD AND SILICONE JOINT SEAL.
 3. COST FOR SEALING JOINT IN MEDIAN TO BE PAID AS "REPLACE JOINT SEAL".
 4. COST FOR SEALING PARAPET JOINTS TO BE INCLUDED FOR PAYMENT WITH "ASPHALTIC PLUG EXPANSION JOINT SYSTEM".



SECTION - PARAPET JOINT TREATMENT AT BRIDGE NOS. 00271 & 00277

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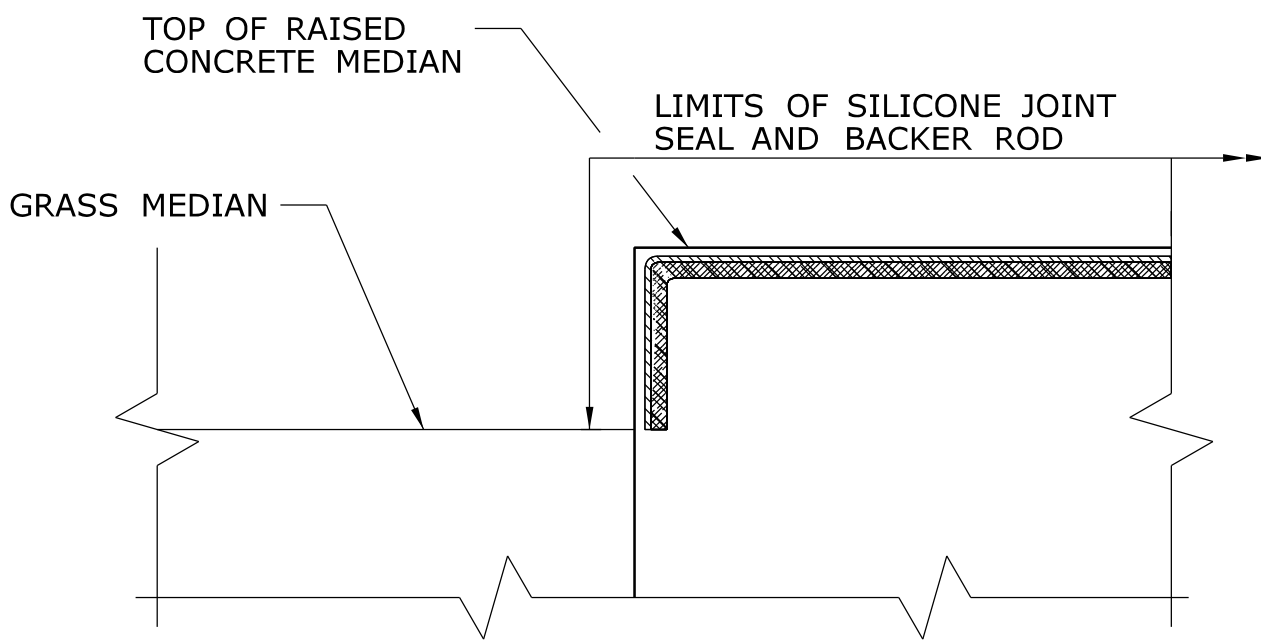
E



SECTION - JOINT TREATMENT AT MEDIAN

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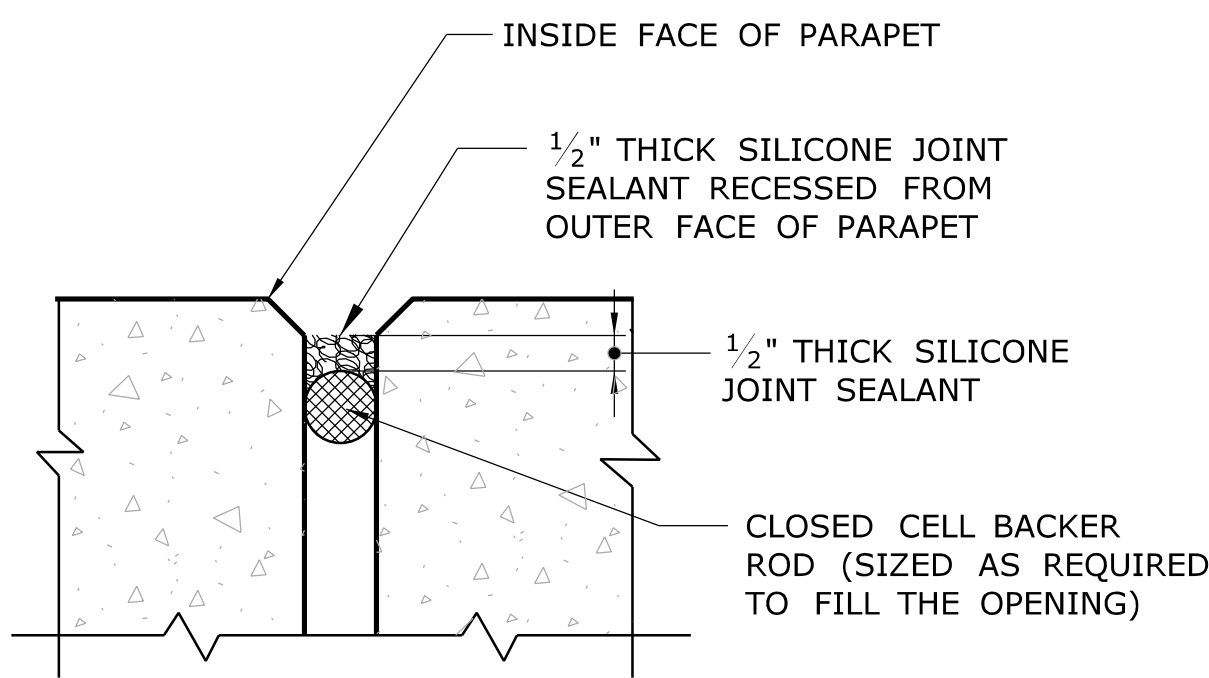
C



SECTION - JOINT TREATMENT AT MEDIAN ELEVATION VIEW

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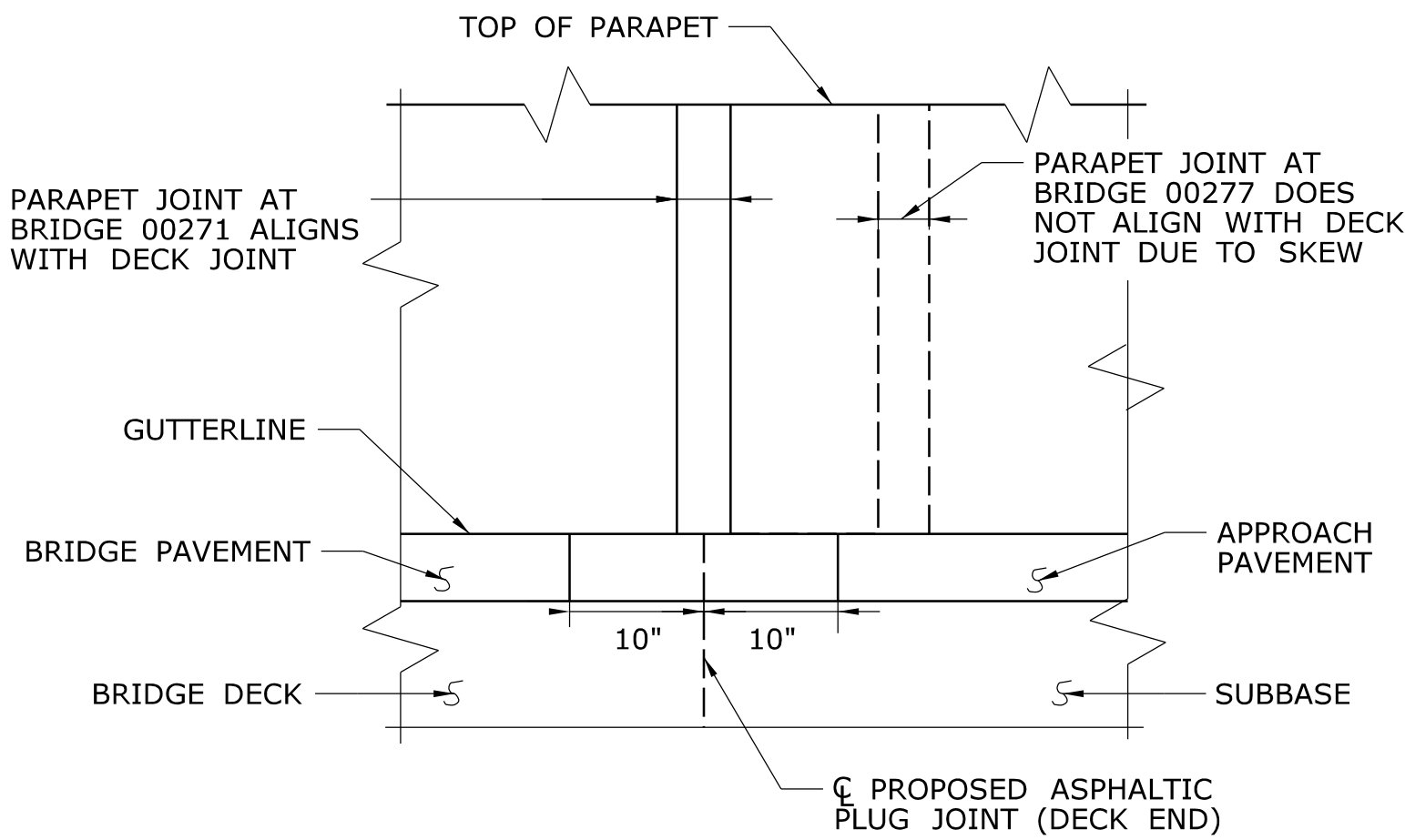
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SECTION - JOINT TREATMENT AT PARAPET BRIDGE NOS. 00271 & 00277

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SECTION - PARAPET JOINT TREATMENT ELEVATION VIEW AT BRIDGE NOS. 00271 & 00277

N.T.S.

G

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/20/2012

DESIGNER/DRAFTER:
JPC
CHECKED BY:
JRH
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\\85-142.DRAWING.NO.S-4.SILICONE.EXPANSION.JOINT.SYSTEM.DETAILS.dgn

SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
[Signature]

PROJECT TITLE:
PAVEMENT PRESERVATION ON I-395

TOWN:
MONTVILLE & NORWICH
DRAWING NO.
S-4
SHEET NO.
04.04

PROJECT NO.
85-142
DRAWING NO.
S-4
SHEET NO.
04.04